



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | |
|---|---|--------------------------|------------------|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | Complete If Known | |
| | | Application Number | 10/617,712 |
| | | Filing Date | July 14, 2003 |
| | | First Named Inventor | Doe |
| | | Art Unit | |
| | | Examiner Name | Not Yet Assigned |
| Sheet | 1 | of | 3 |
| | | Attorney Docket Number | TA-611 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number- Kind Code ² (if known) | | | |
| TL | | US-4,524,611 | 6/25/85 | Richon et al. | |
| | | US-4,602,501 | 7/29/86 | Hirata | |
| | | US-5,040,410 | 8/20/91 | Chu et al. | |
| | | US-6,018,988 | 2/1/00 | Persson | |
| | | US-6,499,336 | 12/31/02 | Raffer | |
| | | US-1,658,950 | 2/1928 | Stein | |
| | | US-2,096,222 | 10/1937 | Bock | |
| | | US-2,382,979 | 8/1945 | Demb | |
| | | US-2,437,194 | 3/1948 | Harrington | |
| | | US-2,703,006 | 3/1955 | Savins | |
| | | US-2,807,160 | 9/1957 | Asbeck | |
| | | US-2,982,132 | 5/1961 | Mendlowitz | |
| | | US-3,435,666 | 4/1969 | Fann | |
| | | US-3,592,060 | 7/1971 | Laverman | |
| | | US-3,875,788 | 4/1975 | Mills | |
| | | US-3,935,726 | 2/1976 | Heinz | |
| | | US-3,962,907 | 6/1976 | Peyrouset et al. | |
| | | US-4,185,493 | 1/1980 | Frosch et al. | |
| | | US-4,379,775 | 4/1983 | Bransteter et al. | |
| TL | | US-4,445,365 | 5/1984 | Selby | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|-----------------------|--|--------------------------------|---|---|
| Examiner Initials | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | | | |
| TL | | FR 2 389 884 | 1/1979 | | <input type="checkbox"/> |
| | | SU 1392-453 | 4/1986 | | <input type="checkbox"/> |
| | | SU 1769-083 | 10/1992 | | <input type="checkbox"/> |
| TL | | WO 94/20832 | 9/1994 | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |

| | | | |
|--------------------|------------------|-----------------|---------|
| Examiner Signature | <i>Laank Lam</i> | Date Considered | 6/22/04 |
|--------------------|------------------|-----------------|---------|

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|--|---|----|---|--------------------------|------------------|
| Substitute for form 1449A/PTO | | | | Complete If Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Application Number | 10/617,712 |
| | | | | Filing Date | 7/14/03 |
| | | | | First Named Inventor | Doe |
| | | | | Art Unit | |
| | | | | Examiner Name | Not Yet Assigned |
| Sheet | 2 | of | 3 | Attorney Docket Number | TA-611 |

U.S. PATENT DOCUMENTS

| Examiner Initials | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-------------------|-----------------------|---|--------------------------------|--|---|
| | | Number- Kind Code ² (if known) | | | |
| TL | | US-4,466,276 | 8/1984 | Ruyak et al. | |
| | | US-4,468,953 | 9/1984 | Garritano | |
| | | US-4,612,799 | 9/1986 | Choi et al. | |
| | | US-4,630,468 | 12/1986 | Sweet | |
| | | US-4,633,708 | 1/1987 | Bloomaert | |
| | | US-4,643,021 | 2/1987 | Mattout | |
| | | US-4,878,377 | 11/1989 | Abel | |
| | | US-5,167,143 | 12/1992 | Brookfield | |
| | | US-5,223,227 | 6/1993 | Zuckerman | |
| | | US-5,308,953 | 5/1994 | Grudzein, Jr. et al. | |
| | | US-5,526,681 | 9/1996 | Selby | |
| | | US-5,587,522 | 12/1996 | Selby | |
| | | US-5,777,212 | 7/1998 | Sekiguchi et al. | |
| | | US-6,164,818 | 12/2000 | Dick et al. | |
| | | US-6,240,770 | 6/2001 | Raffer | |
| TL | | US-6,588,254 | 7/2003 | Doe | |
| | US- | | | | |

FOREIGN PATENT DOCUMENTS

| | | | |
|-----------------------|---|--------------------|---------|
| Examiner Signature |  | Date Considered | 6/22/04 |
|-----------------------|---|--------------------|---------|

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|--|---|----|---|--------------------------|------------------|
| Substitute for form 1449B/PTO | | | | <i>Complete if Known</i> | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Application Number | 10/617,712 |
| | | | | Filing Date | 7/14/03 |
| | | | | First Named Inventor | Doe |
| | | | | Group Art Unit | |
| | | | | Examiner Name | Not Yet Assigned |
| Sheet | 3 | of | 3 | Attorney Docket Number | TA-611 |

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

| | | | |
|-----------------------|------------------|--------------------|---------|
| Examiner Signature | J. W. Smith, Jr. | Date Considered | 6/22/04 |
|-----------------------|------------------|--------------------|---------|

EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance.

EXAMINER: Initial reference considered, whether or not citation is in conformance with RCEP
conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.